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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/769,376	01/26/2001	Nobuyoshi Yagi	Q62053	5759
7590 02/19/2004			EXAMINER	
SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC			DICUS, TAMRA	
2100 Pennsylva Washington, D	nnia Avenue, N.W.		ART UNIT PAPER NUMBER	
washington, D	C 20031		1774	***

DATE MAILED: 02/19/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
1	Office Action Common ma	09/769,376	YAGI ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Tamra L. Dicus	1774				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
	A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
	Status						
	1) Responsive to communication(s) filed on 03 De	ecember 2003.	• 0				
		action is non-final.					
_	3) Since this application is in condition for allowan	ce except for formal	matters, prosecution as to the merits is	3			
	closed in accordance with the practice under Ex						
	Disposition of Claims		• -				
	 4) Claim(s) 1-6 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 						
5)☐ Claim(s) is/are allowed. 6)☒ Claim(s) <u>1-6</u> is/are rejected.							
	8) Claim(s) are subject to restriction and/or	election requiremen	t.				
	Application Papers						
	9) The specification is objected to by the Examiner						
İ	10) The drawing(s) filed on is/are: a) acce	pted or b) objecte	d to by the Examiner.				
	Applicant may not request that any objection to the d						
Ì	Replacement drawing sheet(s) including the correction			D			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
	Priority under 35 U.S.C. § 119						
	12) Acknowledgment is made of a claim for foreign μ a) All b) Some * c) None of:	oriority under 35 U.S	.C. § 119(a)-(d) or (f).				
	1. Certified copies of the priority documents	have been received					
	2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).						
-	* See the attached detailed Office action for a list of the certified copies not received.						
	Attachment(s)						
- 1	1) Notice of References Cited (PTO-892)	4\ F1	iau Camana (DTC)				
	2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	ا الله الله الله الله الله الله الله ال	iew Summary (PTO-413) · No(s)/Mail Date				
	3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) 🔲 Notic	e of Informal Patent Application (PTO-152)	•			
υ. P	S. Patent and Trademark Office TOL-326 (Rev. 1-04) Office Acti	on Summary	Part of Paper No./Mail Date 0203200	4			

Application/Control Number: 09/769,376

Art Unit: 1774

DETAILED ACTION

The Examiner withdraws all previous rejections. The rejection below will be considered a non-final rejection.

Claim Rejections - 35 USC § 112

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 3 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. A transparent hard coat is not taught, described, or included as a single or in a multilayer construct. Therefore instant claim 3 does not have the proper support in the original specification as filed because the specification does not provide any teaching or discussion on a transparent hard coat.

Double Patenting

3. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993), *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Art Unit: 1774

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

4. Claims 1-2 and 4-5 rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 1 of U.S. Patent No. 6,500,518 to Sugawa et al. Although the conflicting claims are not identical, they are not patentably distinct from each other because the present claims differ only in the recitation of the surface roughness values of 0.8 nm and 0.2 nm or lower is an obvious limitation as '518 to Sugawa provides in patented claim 1 the limitation that claims a smooth surface. While the roughness value of 0.8 nm is not claimed, but is considered inherent since the same epoxy resin is used in the same manner. Further at col. 3, line 40, a surface roughness value is taught within the range of 0.2 micrometers or less, falling within Applicant's range of 0.8 nm and 0.2 nm or lower.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 6. Claims 1-2 and 4-6 are rejected under 35 U.S.C. 102(e) as being anticipated by USPN 6,500,518 to Sugawa et al.

The applied reference has a common assignee with the instant application. Based upon

Application/Control Number: 09/769,376

Art Unit: 1774

the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

Sugawa an epoxy optical sheet having a thickness of 500 micrometers or less (falling within Applicant's range of an average thickness of from 100 to 800 and 200 to 500 micrometers of instant claims 1 and 5). The sheet is epoxy (8), is a multilayer structure, and has a smooth surface such as a roughness Ra of 0.02 micrometers or less (meeting Applicant's range of 0.8 and 0.2 nm or lower of instant claims 1 and 4). See col. 3, ll 1-8, ll 30-68, col. 4, ll 3-45. The epoxy resin includes specific resins such as bisphenol A at col. 4, ll 47-50 (to instant claim 6). A layer of a cured epoxy resin as a base layer is also provided (see (62) of Figure 1 and col. 2, l 42).

- 7. Claims 1-2 and 4-5 are rejected under 35 U.S.C. 102(e) as being anticipated by USPN 6,136,444 to Kon et al.
- 8. Kon teaches a multilayer resinous structure having a transparent plastic substrate of a thickness between 70 and 200 micrometers at col. 17, ll 55-64 (falling within Applicant's range of an average thickness of from 100 to 800 and 200 to 500 micrometers of instant claims 1 and 5). The transparent plastic substrate has a surface roughness Ra of 1 nm or less at col. 18, ll 35-43 (meeting Applicant's range of 0.8 and 0.2 nm or lower of instant claims 1 and 4). Regarding instant claim 2, a base cured epoxy layer is also taught by Kon as layer (7) as a solvent-resistant

Art Unit: 1774

radiation curing layer see Example 4-col.28, lines 36-38. See also col. 20, ll 30-50 providing for the structure including various multilayer components.

Claim Rejections - 35 USC § 103

- 9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 10. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over USPN 6,136,444 to Kon et al. in view of USPN 6,261,664 to Beeson et al.

Kon is relied upon above. Kon does not teach an expoxy of bisphenyol A type. The invention of Beeson is directed to an optical light diffusion multilayered transparent support. At col. 4, ll 59-60, Beeson teaches a uniform (average) thickness of 0.2 to 2 mm, within the claimed range of 100 to 800 micrometers. The photopolymerizable material layer is of cured epoxy deposited on a substrate, where the epoxy is deemed equivalent to Applicant's base layer as the epoxy layer of Beeson is an outermost layer as well. See col. 3, ll 50-60, col. 4, ll 12-25, and Figures 1-2. Both Kon and Beeson are involved in the same technical field such as optical films, thereby providing a *prima facie* case of obviousness. It would have been obvious to one of ordinary skill in the art to include a bisphenol epoxy because Beeson teaches it is conventional to use in optical films as cited above.

Application/Control Number: 09/769,376

Art Unit: 1774

Page 6

Response to Arguments

11. Applicant's arguments have been considered but are most in view of the new ground(s) of rejection. Beeson is still used in the rejection because Beeson teaches the conventional use of hardened epoxy as an outerlayer and/or base.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tamra L. Dicus whose telephone number is 571-272-1519. The examiner can normally be reached on Monday-Friday, 7:00-4:30 p.m., alternate Fridays. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cynthia Kelly can be reached on 571-272-1526. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

February 4, 2004

Tamra L. Dicus Examiner

AU 1774 CYNTHIA H. KELLY
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ant Hilley